

## 2018 Current Fiscal Year Report: High Energy Physics Advisory Panel

Report Run Date: 06/05/2019 07:17:25 AM

### 1. Department or Agency

Department of Energy

### 2. Fiscal Year

2018

### 3. Committee or Subcommittee

High Energy Physics Advisory Panel

### 3b. GSA Committee No.

178

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

08/11/2017

### 6. Expected Renewal Date

08/11/2019

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority Agency Authority

### 12. Specific Establishment Authority

AGENCY

### 13. Effective Date

01/13/1967

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee Scientific Technical Program Advisory Board

### 16a. Total Number of Reports

No Reports for this Fiscal Year

### 17a. Open Meetings 1 17b. Closed Meetings 0 17c. Partially Closed Meetings 0 17d. Total Meetings 1

### Meetings and Dates

| Purpose  | Start      | End        |
|--|------------|------------|
| The primary purpose of this meeting was to have the HEPAP committee members hear and vote upon two Portfolio Review subpanel reports, the report of the LARGE Hadron Collider subpanel, and the report of the Main Subpanel for Operating Experiments. These two reports were voted upon and approved on condition some final edits of a non-substantial nature be made. | 05/14/2018 | 05/15/2018 |

### Number of Committee Meetings Listed: 1

|  | Current FY   | Next FY      |
|--|--------------|--------------|
| 18a(1). Personnel Pmts to Non-Federal Members                  | \$0.00       | \$0.00       |
| 18a(2). Personnel Pmts to Federal Members                      | \$0.00       | \$0.00       |
| 18a(3). Personnel Pmts to Federal Staff                        | \$35,000.00  | \$35,000.00  |
| 18a(4). Personnel Pmts to Non-Member Consultants               | \$0.00       | \$0.00       |
| 18b(1). Travel and Per Diem to Non-Federal Members             | \$125,439.00 | \$135,000.00 |
| 18b(2). Travel and Per Diem to Federal Members                 | \$0.00       | \$0.00       |
| 18b(3). Travel and Per Diem to Federal Staff                   | \$0.00       | \$0.00       |
| 18b(4). Travel and Per Diem to Non-member Consultants          | \$0.00       | \$0.00       |
| 18c. Other(rents,user charges, graphics, printing, mail, etc.) | \$166,300.00 | \$175,000.00 |

|  |              |              |
|--|--------------|--------------|
| <b>18d. Total</b>                            | \$326,739.00 | \$345,000.00 |
| <b>19. Federal Staff Support Years (FTE)</b> | 0.20         | 0.20         |

**20a. How does the Committee accomplish its purpose?**

HEPAP at its meetings reviews the advances and current trends in high energy physics and makes recommendations to the Director, Office of Science (DOE) and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF) regarding strategic positioning of the research program.

**20b. How does the Committee balance its membership?**

The Panel is selected to maintain an appropriate balance among areas of technical experimental physics, accelerator physics, and general science; various types of institutional affiliation (university, national laboratory); and geographical location. The Panel has been balanced in accordance with requirements of the Federal Advisory Committee Act.

**20c. How frequent and relevant are the Committee Meetings?**

The HEPAP meets on average three to four times a year and provides advice and recommendations to the Director of the Office of Science, DOE and the Assistant Director, Mathematical and Physical Sciences Directorate, NSF. The agency provides feedback to the committee at its various meetings where the Associate Director, Office of High Energy Physics (DOE), and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF) give a verbal report to the committee regarding their advice. A recent development as of 2016 is to hold telecon meetings in lieu of face-to-face meetings. This step was taken as a time- and cost-savings measure.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The advice of the HEPAP is essential in carrying out the best national program in high energy physics. There is no other advisory committee within the Federal Government which includes sufficient expertise in high energy physics research to provide informed advice in this area of high energy physics research. The requisite knowledge and experience are also not available within DOE or NSF.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

N/A

**21. Remarks**

In FY2018 HEPAP held a High Energy Physics Portfolio Review which resulted in two

reports that were not published until November 2018. The two subpanels of non-HEPAP experts held several meetings to execute the portfolio review and these meetings led to additional costs indicated in the category "Est Travel Reimb Non-Fed Members" below.

## Designated Federal Officer

John Thomas Boger DFO

| Committee Members   | Start      | End        | Occupation   | Member Designation                       |
|---------------------|------------|------------|--|--|
| Conrad, Janet       | 03/26/2018 | 03/25/2020 | Massachusetts Institute of Technology                                | Special Government Employee (SGE) Member |
| Cranmer, Kyle       | 03/26/2016 | 03/25/2019 | New York University, NYC, NY   | Special Government Employee (SGE) Member |
| Godbole, Rohini     | 03/26/2018 | 03/25/2020 | Indian Institute of Science, Bangalore, India                        | Representative Member                    |
| Habib, Salman       | 03/26/2016 | 03/25/2019 | Argonne National Laboratory, Lemont, IL                              | Special Government Employee (SGE) Member |
| Hewett, JoAnne      | 03/26/2018 | 03/25/2020 | SLAC National Accelerator Laboratory                                 | Special Government Employee (SGE) Member |
| Incandela, Joseph   | 03/26/2018 | 03/25/2019 | University of California, Santa Barbara, CA                          | Ex Officio Member                        |
| Irwin, Kent         | 03/26/2018 | 03/25/2020 | SLAC National Accelerator Laboratory                                 | Special Government Employee (SGE) Member |
| Kinoshita, Kay      | 03/26/2016 | 03/25/2019 | University of Cincinnati, Cincinnati, OH                             | Special Government Employee (SGE) Member |
| Larbalestier, David | 03/26/2016 | 03/25/2019 | Florida State University, Tallahassee, FL                            | Special Government Employee (SGE) Member |
| Lucchesi, Donatella | 03/26/2018 | 03/25/2020 | Dipartimento di Fisica e Astronomia "Galileo Galilei", Padova, Italy | Representative Member                    |
| Pilat, Fulvia       | 03/26/2017 | 03/25/2020 | Thomas Jefferson National Accelerator Facility                       | Special Government Employee (SGE) Member |
| Roser, Thomas       | 03/26/2016 | 03/25/2019 | Brookhaven National Laboratory, Upton, NY                            | Special Government Employee (SGE) Member |
| Spiropulu, Maria    | 03/26/2016 | 03/25/2019 | California Institute of Technology, Pasadena, CA                     | Special Government Employee (SGE) Member |
| Stubbs, Christopher | 03/26/2016 | 03/25/2019 | Harvard University, Cambridge, MA                                    | Special Government Employee (SGE) Member |
| Syphers, Michael    | 03/26/2017 | 03/25/2020 | Northern Illinois University   | Special Government Employee (SGE) Member |
| Trodden, Mark       | 03/26/2016 | 03/25/2019 | University of Pennsylvania, Philadelphia, PA                         | Special Government Employee (SGE) Member |
| Wells, James        | 03/26/2016 | 03/25/2019 | University of Michigan, Ann Arbor, MI                                | Special Government Employee (SGE) Member |
| Zeller, GERALYN     | 03/26/2016 | 03/25/2019 | Fermi National Accelerator Laboratory, Batavia, IL                   | Special Government Employee (SGE) Member |

**Number of Committee Members Listed: 18**

## Narrative Description

HEPAP at its meetings reviews the advances and current trends in high energy physics and makes recommendations to the Director, Office of Science(DOE), and to the Assistant Director, Mathematical & Physical Sciences Directorate of the National Science Foundation (NSF) regarding strategic positioning of the research program including the

possible consideration of major new research projects and construction.

**What are the most significant program outcomes associated with this committee?**

Checked if Applies

- |   |                                     |
|---|-------------------------------------|
| Improvements to health or safety                  | <input type="checkbox"/>            |
| Trust in government                               | <input type="checkbox"/>            |
| Major policy changes                              | <input type="checkbox"/>            |
| Advance in scientific research                    | <input checked="" type="checkbox"/> |
| Effective grant making                            | <input type="checkbox"/>            |
| Improved service delivery                         | <input checked="" type="checkbox"/> |
| Increased customer satisfaction                   | <input type="checkbox"/>            |
| Implementation of laws or regulatory requirements | <input type="checkbox"/>            |
| Other   | <input type="checkbox"/>            |

**Outcome Comments**

NA

**What are the cost savings associated with this committee?**

Checked if Applies

- |                            |                                     |
|----------------------------|-------------------------------------|
| None                       | <input type="checkbox"/>            |
| Unable to Determine        | <input checked="" type="checkbox"/> |
| Under \$100,000            | <input type="checkbox"/>            |
| \$100,000 - \$500,000      | <input type="checkbox"/>            |
| \$500,001 - \$1,000,000    | <input type="checkbox"/>            |
| \$1,000,001 - \$5,000,000  | <input type="checkbox"/>            |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/>            |
| Over \$10,000,000          | <input type="checkbox"/>            |
| Cost Savings Other         | <input type="checkbox"/>            |

**Cost Savings Comments**

NA

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

522

**Number of Recommendations Comments**

Since 1968 the High Energy Physics Advisory Panel has issued over 70 reports covering all aspects of the field of High Energy Physics. We estimate that there have been

hundreds of recommendations over the duration of the committee, but do not know the exact number. In FY2018, HEPAP delivered two reports in response to the Portfolio Review Charge and provided recommendations with regards to how to prioritize to the suite of HEP supported experiments.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

80%

**% of Recommendations Fully Implemented Comments**

What percentage of all HEPAP recommendations have been fully implemented is difficult to assess. The vast majority of recommendations rest on solid foundations and HEP agrees with these recommendations and attempts to implement them whenever possible within budgetary constraints. Due to an improved FY2018 budget, no recommendations that resulted from the Portfolio Review Charge were implemented.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

0%

**% of Recommendations Partially Implemented Comments**

The percentage of partially implemented recommendations is difficult to assess. Most recommendations are either fully implemented or not because the recommendations are based on different funding scenarios. If a recommendation was not implemented it was not necessarily because HEP disagreed with the recommendation. An historical estimate of 20% for partially implemented or not implemented at all is a reasonable estimate. For FY 2018, there were 13 recommendations that prioritized 13 HEP supported experiments. At this point no actions have been taken based on these recommendations.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

The Agency, including NSF, provides feedback to the committee at its various meetings where the Director, Office of Science(DOE),and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF) give verbal reports to the committee regarding their advice and recommendations.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Reorganized Priorities            | <input checked="" type="checkbox"/> |
| Reallocated resources             | <input checked="" type="checkbox"/> |
| Issued new regulation             | <input type="checkbox"/>            |
| Proposed legislation              | <input type="checkbox"/>            |
| Approved grants or other payments | <input type="checkbox"/>            |
| Other                             | <input checked="" type="checkbox"/> |

**Action Comments**

Will complete later.

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

|                           |                                     |
|---------------------------|-------------------------------------|
| Contact DFO               | <input checked="" type="checkbox"/> |
| Online Agency Web Site    | <input checked="" type="checkbox"/> |
| Online Committee Web Site | <input checked="" type="checkbox"/> |
| Online GSA FACA Web Site  | <input checked="" type="checkbox"/> |
| Publications              | <input type="checkbox"/>            |
| Other                     | <input type="checkbox"/>            |

**Access Comments**

N/A